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ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE FIRST NAMED INVENTOR APPLICATION NO. 450100-03547 8666 09/982,711 10/18/2001 Taizo Shirai **EXAMINER** 20999 7590 10/24/2005 KHOSHNOODI, NADIA FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. ART UNIT PAPER NUMBER NEW YORK, NY 10151 2137

DATE MAILED: 10/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/982,711	SHIRAI ET AL.
	Examiner	Art Unit
	Nadia Khoshnoodi	2137
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6).MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>9/12/2005</u> .		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) ⊠ Claim(s) <u>1-32</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-32</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 18 October 2001 is/are: Applicant may not request that any objection to the conference of	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da	
Paper No(s)/Mail Date	6) Other:	

DETAILED ACTION

Response to Amendments

Applicant's amendments/arguments filed 9/12/2005 with respect to amended claims 1, 8, 15, 17, 24, 31, & 32 and previously presented claims 2-7, 9-14, 16, 18-23, & 25-30 have been fully considered but are most in view of the new ground(s) of rejection.

Response to Arguments

Applicant contends that Hazard does not disclose or suggest an information recording device wherein "a block permission table for accessing a permission table that describes memory access control information." Examiner respectfully disagrees. Hazard teaches a "Number of Associated Key" in col. 2 of Fig. 3 which can be used in combination with Fig. 2, col.2 "Key Number" in order to gain access to the "Key Stored Value," col. 4 of Fig. 2 which can be construed as the permission that controls access to the sensitive data, i.e. describes memory access control information. Furthermore, Hazard also teaches that the encryption key is used in order to gain access to the sensitive information (col. 5, lines 18-39). Therefore, Hazard teaches the claimed limitation of the device wherein "a block permission table for accessing a permission table that describes memory access control information."

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the

applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Claim Rejections - 35 USC § 103

- I. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- II. Claims 1-2, 5, 8, 15-18, 21, 24-25, 28, and 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hazard, United States Patent No. 6,658,566 and further in view of Harada et al., United States Patent No. 6,850,914, and Dan et al., US Patent No. 5,825,877.

 As per claims 1 and 17:

Hazard substantially teaches an information recording device and method for executing processing which stores data to a memory having a data storage area consisting of a plurality of blocks, each of the blocks consists of M sectors from a first sector to a M-th sector with each sector having a predetermined data capacity, where M represents a natural number (col. 5, lines 15-39 and fig. 3), said information recording device comprising a cryptosystem unit which selectively uses different encryption keys for each sectors from the first sector to the M-th sector to execute encryption processing and the cryptosystem unit executes encryption processing on data to be stored in each of the sectors (col. 5, lines 1-14 and fig. 2). Furthermore, Hazard also teaches a block permission table for accessing a permission table that describes memory access control information (fig. 2, col. 2 "Key Number" used to gain information about the "Key Stored").

Value" associated with fig. 3, col. 2 "Number of Associated Key").

Not explicitly disclosed is a revocation list having revocation information on each media and checking the integrity of the revocation list. However, Harada et al. teach that each appliance has revocation information associated with it in order to allow/disallow media usage. Furthermore, Harada et al. also teach checking the revocation list to ensure that no tampering has occurred. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have revocation information on each media, as well as an integrity unit in order to ensure the integrity of the revocation list. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Harada et al. in col. 5, line 32 – col. 6, line 26.

Also not explicitly disclosed is checking the integrity of the block permission table. However, Dan et al. teach that it is important to check the integrity of access control lists to ensure that the access list is being enforced in such a way that the permissions/resources aren't exceeded. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have an integrity unit in order to ensure the integrity of the block permission table. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dan et al. in col. 1, lines 55-59.

As per claims 2 and 18:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method of claim 1. Furthermore, Hazard teaches the information recording device and

method wherein in said cryptosystem unit, from among M different encryption keys corresponding to M sectors, which are stored in header information corresponding to the data to be stored in said memory, one encryption key is selected in accordance with a sector in which the data is stored, and the selected encryption key is used to perform the encryption of data to be stored in each of the sectors (col. 5, lines 35-39 and fig. 3). Although the term "header information" is not specifically used, the information is stored in such a way that it is identical to that of header information.

As per claims 5 and 21:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method of claim 1. Furthermore, Hazard teaches the information recording device and method wherein, in said cryptosystem unit, the encryption processing for the first sector to the M-th sector is executed as single-DES encryption processing using different encryption keys for the sectors (col. 4, lines 32-46).

As per claims 8 and 24:

Hazard substantially teaches the information recording device and method for executing processing which reads data from a memory having a data storage area consisting of a plurality of blocks, each of which consists of the first sector to the M-th sector which each have a predetermined data capacity, where M represents a natural number (col. 5, lines 15-39 and fig. 3), said information playback device comprising a cryptosystem unit which selectively uses different decryption keys for the first sector to M-th sector to execute decryption processing and which executes decryption processing on data stored in each of the sectors (col. 4, lines 32-46, col. 5, lines 1-14, and fig. 2). Furthermore, Hazard also teaches a block permission table for

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accessing a permission table that describes memory access control information (fig. 2, col. 2 "Key Number" used to gain information about the "Key Stored Value" associated with fig. 3, col. 2 "Number of Associated Key").

Not explicitly disclosed is a revocation list having revocation information on each media and integrity of the revocation list. However, Harada et al. teach that each appliance has revocation information associated with it in order to allow/disallow media usage. Furthermore, Harada et al. also teach checking the revocation list to ensure that no tampering has occurred. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have revocation information on each media, as well as an integrity unit in order to ensure the integrity of the revocation list. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Harada et al. in col. 5, line 32 – col. 6, line 26.

Also not explicitly disclosed is checking the integrity of the block permission table. However, Dan et al. teach that it is important to check the integrity of access control lists to ensure that the access list is being enforced in such a way that the permissions/resources aren't exceeded. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have an integrity unit in order to ensure the integrity of the block permission table. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dan et al. in col. 1, lines 55-59.

As per claims 9 and 25:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method of claim 8. Furthermore, Hazard teaches the information recording device and method wherein, in said cryptosystem unit, from among M different decryption keys corresponding to M sectors, which are stored in header information corresponding to data stored in said memory, one decryption key is selected in accordance with a sector in which the data is stored, and the selected decryption key is used to perform the decryption of data stored in each of the sectors (col. 4, lines 32-46, col. 5, lines 35-39 and fig. 3). Although the term "header information" is not specifically used, the information is stored in such a way that it is identical to that of header information.

As per claims 12 and 28:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method of claim 8. Furthermore, Hazard teaches an information playback device and method wherein, in said cryptosystem unit, the decryption processing for the first sector to the M-th sector is executed as single-DES decryption processing using different decryption keys for the sectors (col. 4, lines 32-46).

As per claim 15:

Hazard substantially teaches an information recording medium having a data storage area consisting of a plurality of blocks, each of which consists of the first sector to the M-th sector which each have a predetermined data capacity, where M represents a natural number (col. 5, lines 15-39 and fig. 3), wherein a plurality of different cryptographic keys which are selectable for the sectors are stored as header information of data stored in said data storage area (col. 5, lines 35-39). Although the term "header information" is not specifically used, the information is

stored in such a way that it is identical to that of header information. Furthermore, Hazard also teaches a block permission table for accessing a permission table that describes memory access control information (fig. 2, col. 2 "Key Number" used to gain information about the "Key Stored Value" associated with fig. 3, col. 2 "Number of Associated Key").

Not explicitly disclosed is a revocation list having revocation information on each media and integrity of the revocation list. However, Harada et al. teach that each appliance has revocation information associated with it in order to allow/disallow media usage. Furthermore, Harada et al. also teach checking the revocation list to ensure that no tampering has occurred. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have revocation information on each media, as well as an integrity unit in order to ensure the integrity of the revocation list. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Harada et al. in col. 5, line 32 – col. 6, line 26.

Also not explicitly disclosed is checking the integrity of the block permission table. However, Dan et al. teach that it is important to check the integrity of access control lists to ensure that the access list is being enforced in such a way that the permissions/resources aren't exceeded. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have an integrity unit in order to ensure the integrity of the block permission table. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dan et al. in col. 1, lines 55-59.

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As per claim 16:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method of claim 15. Furthermore, Hazard teaches an information recording medium, wherein said plurality of different cryptographic keys are M different encryption keys corresponding to the M sectors (col. 5, lines 1-14 and fig. 2).

As per claim 31:

Hazard substantially teaches a program providing medium for providing a computer program which controls a computer system to execute processing which stores data in a memory having a data storage area consisting of a plurality of blocks, each of which consists of the first sector to the M-th sector which each have a predetermined data capacity, where M represents a natural number (col. 5, lines 15-39 and fig. 3), said computer program comprising a data-encrypting step in which encryption processing on data to be stored in the sectors is executed by performing encryption using encryption keys selected for the first sector to the M-th sector (col. 5, lines 1-14 and fig. 2). Furthermore, Hazard also teaches a block permission table for accessing a permission table that describes memory access control information (fig. 2, col. 2 "Key Number" used to gain information about the "Key Stored Value" associated with fig. 3, col. 2 "Number of Associated Key").

Not explicitly disclosed is a revocation list having revocation information on each media and integrity of the revocation list. However, Harada et al. teach that each appliance has revocation information associated with it in order to allow/disallow media usage. Furthermore, Harada et al. also teach checking the revocation list to ensure that no tampering has occurred. Therefore, it would have been obvious to a person in the art at the time the invention was made

to modify the method disclosed in Hazard et al. to have revocation information on each media, as well as an integrity unit in order to ensure the integrity of the revocation list. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Harada et al. in col. 5, line 32 – col. 6, line 26.

Also not explicitly disclosed is checking the integrity of the block permission table. However, Dan et al. teach that it is important to check the integrity of access control lists to ensure that the access list is being enforced in such a way that the permissions/resources aren't exceeded. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have an integrity unit in order to ensure the integrity of the block permission table. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dan et al. in col. 1, lines 55-59.

As per claim 32:

Hazard substantially teaches program providing medium for providing a computer program which controls a computer system to execute processing which reads data from a memory having a data storage area consisting of a plurality of blocks, each of which consists of the first sector to the M-th sector which each have a predetermined data capacity, where M represents a natural number (col. 5, lines 15-39 and fig. 3), said computer program comprising a data-decrypting step in which decryption of data stored in each of the sectors is performed by executing decryption processing using decryption keys selected in accordance with the first sector to the M-th sector (col. 4, lines 32-46, col. 5, lines 1-14, and fig. 2). Furthermore, Hazard

also teaches a block permission table for accessing a permission table that describes memory access control information (fig. 2, col. 2 "Key Number" used to gain information about the "Key Stored Value" associated with fig. 3, col. 2 "Number of Associated Key").

Not explicitly disclosed is a revocation list having revocation information on each media and integrity of the revocation list. However, Harada et al. teach that each appliance has revocation information associated with it in order to allow/disallow media usage. Furthermore, Harada et al. also teach checking the revocation list to ensure that no tampering has occurred. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have revocation information on each media, as well as an integrity unit in order to ensure the integrity of the revocation list. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Harada et al. in col. 5, line 32 – col. 6, line 26.

Also not explicitly disclosed is checking the integrity of the block permission table. However, Dan et al. teach that it is important to check the integrity of access control lists to ensure that the access list is being enforced in such a way that the permissions/resources aren't exceeded. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Hazard et al. to have an integrity unit in order to ensure the integrity of the block permission table. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dan et al. in col. 1, lines 55-59.

III. Claims 3-4, 6, 10-11, 13, 19-20, 22, 26-27, and 29 are rejected under 35 U.S.C. 103(a) as

being unpatentable over Hazard, United States Patent No. 6,658,566, Harada et al., United States Patent No. 6,850,914, and Dan et al., US Patent No. 5,825,877 as applied to claims 1, 8, 17, and 24 above, and further in view of Dilkie et al., United States Patent No. 6,341,164. As per claims 3 and 19:

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Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method, as applied to claims 1 and 17 above. Not explicitly disclosed is the device/method wherein, in said cryptosystem unit, from among M different encryption keys corresponding to M sectors, which are stored in header information corresponding to the data to be stored in said memory, a set of at least two encryption keys is selected in accordance with a sector in which the data is stored, and the selected encryption keys are used to perform the encryption of data to be stored in each of the sectors. However, Hazard teaches the use of single-DES encryption (col. 4, lines 32-46). Furthermore, Dilkie et al. teach the use of triple-DES which uses at least 2 keys for encryption. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to use triple-DES for the encryption processing, thereby using at least 2 keys for encryption. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dilkie et al. in col. 2, lines 48-54. As per claims 4 and 20:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method, as applied to claims 1 and 17 above. Not explicitly disclosed is the device/method wherein, in said cryptosystem unit, from among P different encryption keys in which the number P differs from the number M, at least one encryption key is selected in accordance with a sector

in which the data is stored, and the selected at least one encryption key is used to perform the encryption of data to be stored in each of the sectors.

However, Dilkie et al. teach that from among P different encryption keys, where P differs from the number M, at least one encryption key is selected from a key package to use for encryption purposes. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to choose at least one encryption key for encrypting data to be stored in each of the sectors from P different keys, where the number P differs from the number M. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dilkie et al. in col. 4, lines 1-37 and col. 4, line 51- col. 2, line 6.

As per claims 6 and 22:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method, as applied to claims 1 and 17 above. Not explicitly disclosed is the information recording device wherein, in said cryptosystem unit, the encryption processing for the first sector to the M-th sector is executed as triple-DES encryption processing using at lest two different encryption keys for each of the sectors. However, Dilkie et al. teaches the use of a triple-DES encryption processing. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to use triple-DES for the encryption processing. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dilkie et al. in col. 2, lines 48-54.

As per claims 10 and 26:

Hazard, Harada et al., and Dan et al. substantially teach an information playback device and method, as applied to claims 8 and 24 above. Not explicitly disclosed is the device/method wherein an information playback device and method wherein, in said cryptosystem unit, from among M different decryption keys corresponding to M sectors, which are stored in header information corresponding to data stored in said memory, a set of at least two decryption keys is selected in accordance with a sector in which data is stored, and the selected encryption keys are used to perform the decryption of data stored in each of the sectors. However, Hazard teaches the use of single-DES decryption (col. 4, lines 32-46 and col. 4, lines 32-46). Furthermore, Dilkie et al. teach the use of triple-DES which uses at least 2 keys for decryption. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to use triple-DES for the decryption processing, thereby using at least 2 keys for decryption. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dilkie et al. in col. 2, lines 48-54.

As per claims 11 and 27:

Hazard, Harada et al., and Dan et al. substantially teach an information playback device and method, as applied to claims 1 and 17 above. Not explicitly disclosed is the device/method wherein, in said cryptosystem unit, from among P different decryption keys in which the number P differs from the number M, at least one decryption key is selected in accordance with a sector in which data is stored, and the selected at least one decryption key is used to perform the decryption of data stored in each of the sectors.

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However, Dilkie et al. teach that from among P different encryption keys, where P differs from the number M, at least one encryption key is selected from a key package to use for encryption purposes. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to choose at least one decryption key based on the encryption keys stored in each of the sectors from P different keys, where the number P differs from the number M. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dilkie et al. in col. 4, lines 1-37, col. 4, line 51-col. 2, line 6, and col. 5, lines 61-67).

As per claims 13 and 29:

Hazard, Harada et al., and Dan et al. substantially teach an information playback device and method, as applied to claims 8 and 24 above. Not explicitly disclosed by Hazard is the information playback device wherein, in said cryptosystem unit, the decryption processing for the first sector to the M-th sector is executed as triple-DES decryption processing using at lest two different decryption keys for each of the sectors. However, Dilkie et al. teaches the use of a triple-DES decryption processing. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to use triple-DES for the decryption processing. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Dilkie et al. in col. 2, lines 48-54.

IV. Claims 7, 14, 23, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hazard, United States Patent No. 6,658,566, Harada et al., United States Patent No. 6,850,914,

and Dan et al., US Patent No. 5,825,877 as applied to claims 1, 8, 17, and 24 above, and further in view of Schneier, *Applied Cryptography*.

As per claims 7 and 23:

Hazard, Harada et al., and Dan et al. substantially teach an information recording device and method, as applied to claims 1 and 17 above. Furthermore, Hazard teaches the use of header information used to store the key as encrypted by an encryption algorithm, as well as other relevant information (col. 8, lines 15-39). Not explicitly disclosed by Hazard is the device/method wherein said cryptosystem unit selectively executes one of sector-independent encryption processing in which in accordance with an encryption format type stored in header information corresponding to the data to be stored in said memory, the entirety of the data is encrypted in a single encryption mode, and sector-dependent encryption processing in which in accordance with the encryption format type, the data is encrypted by using encryption keys which are selected for the sectors.

However, Schneier teaches using sector-independent encryption processing where the entirety of data is encrypted in a single encryption mode, and sector-dependent encryption processing where the data is encrypted by using encryption keys that are selected for the sectors. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to store the encryption format type in the header information to designate a sector-dependent or sector-independent encryption format. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Schneier on pages 221, lines 8-12 and 222, lines 24-43.

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As per claims 14 and 30:

Hazard, Harada et al., and Dan et al. substantially teach an information playback device and method, as applied to claims 8 and 24 above. Furthermore, Hazard teaches the use of header information used to store the key as encrypted by an encryption algorithm, as well as other relevant information (col. 8, lines 15-39). Not explicitly disclosed by Hazard is the device/method wherein said cryptosystem unit selectively executes one of sector-independent decryption processing in which in accordance with an encryption format type stored in header information corresponding to data stored in said memory, the entirety of the data is decrypted in a single decryption mode, and sector-dependent decryption processing in which in accordance with the encryption format type, the data is decrypted by using decryption keys which are selected for the sectors.

However, Schneier teaches using sector-independent decryption processing where the entirety of data is decrypted in a single decryption mode, and sector-dependent decryption processing where the data is decrypted by using decryption keys that are selected for the sectors. Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the device/method disclosed in Hazard to store the encryption format type in the header information to designate a sector-dependent or sector-independent decryption format. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since it is suggested by Schneier on pages 221, lines 8-12 and 222, lines 24-43.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadia Khoshnoodi whose telephone number is (571) 272-3825. The examiner can normally be reached on M-F: 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Madis When Nadia Khoshnoodi

Examiner

Art Unit 2137

10/18/2005

NK

EMMANUEL L. MOISE SUPERVISORY PATENT EXAMINER